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JUL 13 2006

### Claim Listing

Please enter the following claim listing, which replaces all existing claims.

1-46 (canceled)

47. (currently amended) A substantially planar substrate and a chip disposed thereon, which together form part of a biological assay system comprising: several discrete hydrophilic regions which are part of on a planar surface of the substrate, the hydrophilic regions being separated from other hydrophilic regions by a hydrophobic region which is part of said planar surface, wherein the hydrophilic regions are designed to accommodate a the chip disposed thereon, which has the chip having a hydrophilic surface which faces said planar surface when the chip is disposed on the substrate and a surface opposed thereto with an array of particles deposited thereon, and wherein a biological reagent is bound to the particles.

48. (canceled)

49. (previously presented) The substrate of claim 47 wherein the hydrophilic regions are within the perimeter of indentations in the planar surface of the substrate, said indentations being surrounded by the hydrophobic regions.

50. (currently amended) The substrate of claim 47 wherein said array includes different types of particles have having different biological reagents bound thereto.

51-54 (canceled)

55. (previously presented) The substrate of claim 47 wherein the substrate comprises silicon or doped silicon.